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(54) ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE COMPOSITION HAVING IMPROVED RESISTANCE TO FRICTION AND WEAR

(57)Abstract:

PURPOSE: To provide a resin compsn. which gives moldings having improved wear resistance, by blending a specified amount of a ground sinter of an ultra- high-molecular-weight polyethylene and an org. peroxide with said polyethylene powder.

CONSTITUTION: 100pts.wt. ultra-high-molecular-weight polyethylene powder (A) having a viscosity-average MW of at least 1,000,000 and an average MW of at least 3,000,000 (light-scattering method), 20W100pts.wt. ground sinter of said polyethylene (B) (pref. one which has a particle size of 1W10mm, and a relatively low melt viscosity and is not crosslinked with an org. peroxide or the like) obtd. by compression molding said polyethylene, and 0.004W0.2wt% org. peroxide (C) such as dicumyl peroxide are blended together to obtain the desired resin compsn. This resin compsn. gives moldings having a high critical PV value and low wearing rate so that they are suitable for use as sliding parts.

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